

Appl. No. 10/671,489
Reply to Office Action of February 2, 2006

Attorney Docket: P69119US0

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claim 1. (currently amended) A single-layer polymer film for food products, consisting essentially of ~~comprising~~ a polyamide matrix and a component providing high permeability of the film with respect to smoke substances and water vapors, wherein said component is a hydrophilic compound in an amount of 4.5-50.0 wt. % of the total weight of the film, and said hydrophilic compound:

- i) forms in the polyamide matrix a highly dispersed phase with a linear domain size of 0.1-3.0 μm in a direction perpendicular to a surface of the film in the polyamide matrix, and
- ii) is soluble in compatible with at least 10 wt. % of water at 20°C.

Claim 2. (previously presented) The polymer film for food products according to claim 1, wherein the polyamide matrix comprises aliphatic polyamide and/or copolyamide and/or terpolyamide.

Claim 3. (previously presented) The polymer film for food products according to claim 2, wherein the aliphatic polyamide and/or copolyamide and/or terpolyamide are selected from the group consisting of polyamide 6 and/or copolyamide 6.66 and/or copolyamide 69 and/or copolyamide 612 and/or terpolyamide 6/66.9 and/or terpolyamide 6/66.12.

Claim 4. (previously presented) The polymer film for food products according to claim 1, wherein the hydrophilic compound is a homopolymer and/or copolymer of a monomer selected from the group consisting of vinylpyrrolidone, vinyl alcohol,

Appl. No. 10/671,489
Reply to Office Action of February 2, 2006

Attorney Docket: P69119US0

alkyloxazoline, alkylene glycols, acrylamide, alkylene oxides, acrylic acid, methacrylic acid, maleic anhydride, vinyl alcohol ethers, vinyl alcohol esters, and cellulose ethers.

Claim 5. (previously presented) The polymer film for food products according to claim 4, wherein said homopolymers and/or copolymers are water-soluble.

Claim 6. (previously presented) The polymer film for food products according to claim 1, wherein the hydrophilic compound is water-soluble low-molecular weight compound.

Claim 7. (previously presented) The polymer film for food products according to claim 6, wherein said low-molecular weight compound is selected from the group consisting of inorganic salts and salts with an organic anion and an inorganic cation.

Claim 8. (previously presented) The polymer film for food products according to claim 1, wherein said film includes plasticizers and/or dyes and/or pigments and/or antiblocking and/or technological additives.

Claim 9. (previously presented) The polymer film for food products according to claim 1, wherein said film is made unoriented.

Claim 10. (previously presented) The polymer film for food products according to claim 1, wherein said film is made uniaxially oriented.

Claim 11. (previously presented) A polymer film for food products according to claim 1, wherein said film is made biaxially oriented.

Claim 12. (previously presented) A packaging from a polymer film for food products, which packaging is a tubular packaging or packet, wherein it is made of a polymer film according to claim 1.

Appl. No. 10/671,489

Attorney Docket P69119US0

Reply to Office Action of February 2, 2006

Claim 13 (new) A single-layer polymer film for food products, consisting essentially of a polyamide matrix and a component providing high permeability of the film with respect to smoke substances and water vapors, wherein said component is a hydrophilic compound in an amount of 4.5-50.0 wt. % of the total weight of the film, and said hydrophilic compound:

i) forms in the polyamide matrix a highly dispersed phase with a linear domain size of 0.1-3.0 μm in a direction perpendicular to a surface of the film in the polyamide matrix, and

ii) is soluble in water.